

**What is claimed is:**

- 1                   1. A method for manufacturing a speaker diaphragm, said method  
2   comprising the steps of:  
3                   disposing a resin speaker diaphragm made by one of injection  
4   molding and sheet forming by heating in a reactive chamber;  
5                   disposing an electrode outside said reactive chamber; and  
6                   activating the surface of said speaker diaphragm by applying plasma  
7   while keeping the temperature inside said reactive chamber below the heat  
8   deformation temperature of said speaker diaphragm.
- 1                   2. The method for manufacturing a speaker diaphragm as defined in  
2   Claim 1, wherein a plurality of said resin speaker diaphragms are placed inside a in  
3   said reactive chamber at a certain interval so as to apply plasma substantially  
4   uniformly.
- 1                   3. The method for manufacturing a speaker diaphragm as defined in  
2   Claim 1, wherein isocyanate primer is applied after plasma treatment.
- 1                   4. The method for manufacturing a speaker diaphragm as defined in  
2   Claim 2, wherein isocyanate primer is applied after plasma treatment.
- 1                   5. The method for manufacturing a speaker diaphragm as defined in  
2   Claim 1, wherein one of monopolymer and copolymer of polyolefin such as  
3   polyethylene and polypropylene is used as a material for said speaker diaphragm.

1                   6. The method for manufacturing a speaker diaphragm as defined in  
2 Claim 2, wherein one of monopolymer and copolymer of polyolefin such as  
3 polyethylene and polypropylene is used as a material for said speaker diaphragm.

1                   7. The method for manufacturing a speaker diaphragm as defined in  
2 Claim 3, wherein one of monopolymer and copolymer of polyolefin such as  
3 polyethylene and polypropylene is used as a material for said speaker diaphragm.

1                   8. The method for manufacturing a speaker diaphragm as defined in  
2 Claim 4, wherein one of monopolymer and copolymer of polyolefin such as  
3 polyethylene and polypropylene is used as a material for said speaker diaphragm.

1                   9. A speaker diaphragm manufactured in accordance with the steps  
2 of:  
3                   disposing a resin speaker diaphragm made by one of injection  
4 molding and sheet forming by heating in a reactive chamber;  
5                   disposing an electrode outside said reactive chamber; and  
6                   activating the surface of said speaker diaphragm by applying plasma  
7 while keeping the temperature inside said reactive chamber below the heat  
8 deformation temperature of said speaker diaphragm.

1                   10. The speaker diaphragm as defined in Claim 9, wherein  
2 isocyanate primer is applied after plasma treatment.

1           11. The speaker diaphragm as defined in Claim 9, wherein one of  
2     monopolymer and copolymer of polyolefin such as polyethylene and  
3     polypropylene is used as a material for said speaker diaphragm.

1           12. The speaker diaphragm as defined in Claim 10, wherein one of  
2     monopolymer and copolymer of polyolefin such as polyethylene and  
3     polypropylene is used as a material for said speaker diaphragm.

1           13. A speaker at least comprising:  
2             a magnetic circuit;  
3             a frame connected to said magnetic circuit; and  
4             a speaker diaphragm whose inner circumference being connected to  
5     a voice coil embedded in a magnetic gap of said magnetic circuit, and outer  
6     circumference being bonded to said frame;  
7             wherein said speaker diaphragm is one of that defined in Claims 9 to  
8     12.

1           14. A speaker at least comprising:  
2             a magnetic circuit;  
3             a frame connected to said magnetic circuit; and  
4             a speaker diaphragm whose inner circumference being connected to  
5     a voice coil embedded in a magnetic gap of said magnetic circuit, and outer  
6     circumference being bonded to said frame via an edge;  
7             wherein said speaker diaphragm is one of that defined in Claims 9 to  
8     12.